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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,785	09/15/2003	Simon Berners Hall	358261-991100	9521
26379	7590	08/11/2008	EXAMINER	
DLA PIPER US LLP			WALKER, KEITH D	
2000 UNIVERSITY AVENUE				
E. PALO ALTO, CA 94303-2248			ART UNIT	PAPER NUMBER
			1795	
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			08/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/662,785	HALL ET AL.	
	Examiner	Art Unit	
	KEITH WALKER	1795	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 27 May 2008.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 25,26 and 28-40 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 25,26 and 28-40 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 6/18/08.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

6) Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/27/08 has been entered.

All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Remarks

Claims 25, 26 & 28-40 are pending examination as discussed below.

Information Disclosure Statement

The information disclosure statement filed on 6/18/08 has been placed in the application file and the information referred to therein has been considered as to the merits.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 25, 26 & 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,824,434 (Kawakami) in view of US Patent 4,297,249 (Przybyla).

Kawakami teaches the process of making an anode electrode by adding a precipitated zinc hydroxide with a salt of an acid such as sodium phosphate (18:1-25).

Kawakami is silent to using a fatty acid or graphite in making the electrode.

Przybyla teaches adding an alkali metal salt of a fatty acid, including the metal of potassium and a fatty acid of stearic acid, forming potassium stearate (5:26-33).

Graphite is added to the mixture to act as a lubricant (6:65-68). The metal salt of the fatty acid promotes a reduction of oxygen evolution and also acts as a lubricant by lowering the internal friction of the powder.

Therefore it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the electrode mix of Yano with the alkali metal salt of a fatty acid and graphite to aid in the lubrication of the powder as it is formed, which promotes a more consistent and uniform density to the electrode.

2. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,824,434 (Kawakami) in view of US Patent 4,297,249 (Przybyla) as applied to claim 30 above, and further in view of US Patent 4,086,392 (Mao).

The teachings of Kawakami and Przybyla as discussed above are incorporated herein.

Kawakami is silent to using zinc sulfate as the acid salt.

Mao teaches adding zinc sulfate to the electrode in order to improve the float current. Addition of the zinc sulfate decreases the float current during constant voltage overcharge (Abstract; 3:25-55).

Therefore it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the acid salt of Kawakami with the zinc sulfate of Mao to improve the battery performance by decreasing the float current.

3. Claims 32-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,824,434 (Kawakami) in view of US Patent 4,297,249 (Przybyla) as applied to claim 30 above, and further in view of US Patent 4,146,685 (Tucholski)

The teachings of Kawakami and Przybyla as discussed above are incorporated herein.

Kawakami and Przybyla are silent to using zinc stearate.

Tucholski also teaches the use of stearates, such as zinc and calcium, as a lubricant or stabilizer and adds the stearates in the amount of about 0.5% (Table 1). Only a minor amount of the stearate is added to mixture to improve the flow and molding of the electrode but not detract from the electrical properties by lowering the density of the active material. Furthermore, it would have been obvious to one having ordinary skill at the time of the invention to vary the amount of the stearate to find the amount needed to promote proper electrode molding and formation, since it is held that discovering an optimum value of a result effective variable involves only routine skill in the art (*MPEP 2144.05*).

Therefore it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the electrode mixture of Kawakami and Przybyla with the amounts presented in Tucholski to improve the molding and forming of the electrode without diminishing the electrical density of the electrode.

4. Claims 36-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,824,434 (Kawakami) in view of US Patent 4,297,249 (Przybyla) and US Patent 4,146,685 (Tucholski) as applied to claim 32 above, and further in view of US Patent 5,688,616 (Yamawaki) and US Patent 4,086,392 (Mao).

The teachings of Kawakami, Przybyla, Tucholski and Mao as discussed above are incorporated herein.

Kawakami is silent to using calcium nitrate and calcium stearate.

Tucholski also teaches the use of stearates, such as zinc and calcium, as a lubricant or stabilizer and adds the stearates in the amount of about 0.5% (Table 1). Only a minor amount of the stearate is added to mixture to improve the flow and molding of the electrode but not detract from the electrical properties by lowering the density of the active material. Furthermore, it would have been obvious to one having ordinary skill at the time of the invention to vary the amount of the stearate to find the amount needed to promote proper electrode molding and formation, since it is held that discovering an optimum value of a result effective variable involves only routine skill in the art (*MPEP 2144.05*).

While Tucholski teaches the use of the calcium stearate, the use of calcium nitrate as a precursor is not taught. As discussed above, Mao teaches using zinc sulfate in the electrode. Yamawaki teaches it is known in the art that calcium nitrate and zinc sulfate are substitute salts for use in a battery (7:47-51).

It would have been obvious to one skilled in the art at the time of the invention to substitute the calcium nitrate for the zinc sulfate and then with the stearic acid, produce

the calcium stearate, since it is held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a batter of obvious design choice (MPEP 2144.07)

Therefore it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to modify the electrode mixture of Kawakami and Przybyla with the amounts presented in Tucholski to improve the molding and forming of the electrode without diminishing the electrical density of the electrode.

Response to Arguments

Applicant's arguments filed 5/27/08 have been fully considered but they are not persuasive.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Applicant has only argued that the individual references do not teach elements of the claims that are clearly taught by the other reference in the rejection. Applicant has not argued the combination of the references or provided evidence against the combination. For example, the limitation of mixing a solution of an alkali salt of a fatty acid is taught by the secondary reference of Przybyla.

Conclusion

All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEITH WALKER whose telephone number is (571)272-3458. The examiner can normally be reached on Mon. - Fri. 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

K. Walker

/PATRICK RYAN/
Supervisory Patent Examiner, Art Unit 1795